

DEVAL L. PATRICK GOVERNOR

TIMOTHY P. MURRAY LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD SECRETARY

JOHN AUERBACH COMMISSIONER

Matthew McDonough, ADA

Norfolk County District Attorney's Office By e-mail

March 18, 2011

Re: Comm. v.

State Lab nos.

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

ADA McDonough,

Please find enclosed a discovery packet for the case noted above. The material is collated in the following manner:

- 1) the chemist's c.v.'s
- 2) the drug receipt to the Quincy Police
- 3) inventory control cards for the submissions
- 4) the bench notes; the drug powder analysis forms
- 5) the data from the Gas Chromatography/ Mass Spectrometry (GC/MS) run

I was the custodial chemist for the submission, performing the preliminary analysis. Annie Khan performed the confirmatory analysis by gas chromatography/mass spectrometry (gc/ms).

If you need further clarification of this material, please call me directly at (617) 983-6627.

Sincerely,

Michael Lawler

Senior Chemist

Cc: Charles Salemi, Annie Khan

Curriculum Vitae

Michael Lawler

Education:

University of Virginia, Charlottesville, Va. Bachelor of Arts in English, 1975 Harvard University, Cambridge, Ma. Master of Arts in biology, 1995

Experience:

1990-present currently Chemist III, Mass. Dept. of Public Health, Drug Lab analyst determining the identity of unknown substances and providing expert testimony in the Courts. Conduct special testing for poisons within drug exhibits.

2005-present lecturer in chemistry, Curry College, Milton, Ma.

1988-1990 New England Newborn Screening (NENS) Biochemist conducting pilot studies and validation trials of new newborn screening tests. Investigator and co-author of papers noted below. Introduced screening test for Biotinidase Deficiency. Liaison with interstate collaborators in national studies.

1983-1988 Supervised NENS urine screening lab for metabolic disorders. Conducted research in collaboration with Children's Hospital (Boston) detecting neuroblastoma, a cancer of early childhood. Conducted reference testing for rare metabolic disorders for an international audience.

1982-1983 NENS hypothyroid assay technologist with Tuft's University

1979-1981 Mass. Bay Community College, staff technologist preparing materials for the laboratory technician program, which included reagents, apparatus and maintaining stock cultures of human pathogens.

Additional education and special training

Drug Analysis, completed six week training course by senior staff within the

Department of Public Health Drug Analysis Laboratory

National Laboratory Network Training Program course as Expert Witness

Qualified as an expert witness in the Massachusetts Courts and the U.S. District Court

CDC course in cell culture

CDC course in antibiotic resistance

CDC course in public health response to bioterrorism

U.S. Army course in biologic warfare and terrorism

Journal Publications

<u>Screening</u>, 1992, 1:34-37; Lawler, M., Frederick, S., Rodriguez-Anza, S., Wolf, B., Levy, H., Newborn Screening for Biotinidase Deficiency, Pilot Study and Follow-up of Identified Cases

<u>Genetic Screening</u>, 1990, 11-18, Mitchell, M., Lawler, M., Walraven, C., Hermos, R., To Screen or Not to Screen for Congenital Hyperplasia: Is that the Question?

<u>The Journal of Pediatrics</u>, 116: 78-83, Secor-McVoy, J., Lawler, M., Schmidt, M., Ebers, D., Hart, P., Pettit, D., Blitzer, M., Wolf, B., Partial Biotinidase Deficiency: Clinical and Biochemical Features

Professional Affiliations

Northeastern Association of Forensic Scientists (NEAFS) since 2005

Awards

Theobald Smith Education Grant for graduate studies

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma., Master of Science in Chemistry, (present) University of Massachusetts, Boston, Ma., Bachelor of Science in Biochemistry, 2001

Experience:

2003 - present

Chemist II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- *Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- *Appointed Assistant Analyst by Assistant Commissioner of Public Health, January 2004.
- *Responsible for the identification of drugs to determine violations of harmful and narcotic drug laws.
- *Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- *Maintenance and repairs of analytical instruments.
- *Maintain the Quality Control of analytical instruments and controls/standards.
- * Maintain the Quality Control/Quality Assurance program for the drug lab.
- *Notary Public

2001 - 2003

OC Analyst II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- *Completed proficiency training conducted by a member of the staff within the Massachusetts Biologic Laboratory, Quality Control and Quality Assurance Department.
- *Routine QC testing of products for the FDA.
- *Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- *Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- *Writing, revising and reviewing Standard Operating Procedures (SOPs)."
- *Complete testing of chemicals for Vendor Validation Project for the FDA.
- *Method Development for creating new techniques for the QC Department.
- *Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC course with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with Massachusetts Biologic Laboratory and Sievers.

Association:

American Chemical Society (ACS)

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

The Commonwealth of Massachusetts

Department of Public Health

Boston Drug Laboratory Tel (617) 983-6622 Fax (617) 983-6625

Executive Office of Health and Human Services State Laboratory Institute

Amherst Drug Laboratory Tel (413) 545-2601 Fax (413) 545-2608

Boston Hours

8:00 - 11:00

2:00-4:00

DRUG RECEIPT

Amherst Hours 9:00-12:001:00 - 3:00

City or Department:	_ Police Reference No.	
Defendant(s) Name (last, first, initial):		
To be completed by Submitter Description of Items Submitted	To be completed Gross Weight	<i>by Lab Personnel</i> Lab Number
15 P/B Brown Powder	6.10pm	
4 P/B of Brown Powda	6.16pm 3.14 gm	
19 P/B of offmunde rackes/B	6127pm	
Received by:	Date:	11-5-69

•	Quincy Police Dept Detective BRIAN COEN	
		Subst: SUB
Amount:	15 Cont. pb	34531.335
		No Analyzed 2
Date Rec'd: 1		No. Analyzed: 2.98
Gross Wt.:	0.10 9	# Tacts: / NAM
	₂	# Tests: / ()
	- 1 .	Section 2
Prelim:	husin	Findings: 46000
No.		Data Analyzadi
	Quincy Police Dep	Date Analyzed: ()5~17~10
	Detective BRIAN COE	
Def:	DOLOCIIVO BRITAIN OOL	-11
Amount:		Subst: SUB
	4 Cont: pb	G0031. G0B
Date Rec'd:	•	No. Analyzed:
	3.14 -	Net Weight: 0 19c
01005 770.	0.14 >	Net Weight: 0, 0 79 # Tests:
		# Tests. SML
	7	2. 62.2
Prelim:	Nowin	Findings: 4000
/	CVVV	
No.		
	Quincy Police Dep	Date Analyzed: 55-10-13
	Detective BRIAN COL	
Def:	Defective Buildin CO	
Amount:		
No. Cont:	19 Cont: pb	Subst: SUB
Date Rec'd:	•	
Gross Wt.:		No. Analyzed: 2
	6.27	Net Weight: 3,339
	. (1	# Tests: 18 m
gen. 41	wannes	C(A)2
Prelim:	M. Mark	Findings: cocceine

Folk_OIG_PRR_038160

0000000D

903040C

00214101 8000

DRUG POWDER ANALYSIS FORM

5-17-10

SAMPLE # AGENCY	Y Grany ANALYST MYC
No. of samples tested:	Evidence Wt. O. (6
PHYSICAL DESCRIPTION:	Gross Wt (): 4,1407
15pb elsub	Gross Wt ():
- ·	Pkg. Wt:
3 larger 12 snella	Net Wt: 2.980Z
M.	OHAUS 2334 5-13-10
12 smells	21,= 20.50008
·	10/2 00,0018
·	5, - 5,000
	20, = 20, 5000 8 10) = 10, 6001 8 5, = 5,0008 13 - 0, 9998
PRELIMINARY TESTS	
Spot Tests	Microcrystalline Tests
Cobalt Thiocyanate () . C × 2	Gold Chloride
Marquis (+)	TLTA ()
	OTHER TESTS
Mecke's (+) V	
PRELIMINARY TEST RESULTS	GCIMS CONFIRMATORY TEST
RESULTS	RESULTS RELYIN
DATE	MS ASD
• ,	OPERATOR 1707
	DATE \ / / / /

samples tested;

#	Gross Welght	Packet Weight	Net Welght	#	Gross Welght	Packet Weight	Net Welght
1	larger		0.4586	26			-
2	maller		0,1337	27			
3				28			
1		· ·	- Walife Company	29			
	n	· ·		30			
:				31			
1	0,	0		32			
ď	0 • 4586			33			•
	3∘ 1÷3758	1		34			
				35			The state of the s
	. 0.	C		36			dirant-1971-maser-messassas Johannassassassassa
	0.			37			
	0 · 13 37 :	× –		38			
	120			39	LLANA PROPERTIES		officers and the second
	1 • 6044 :	*		40			
	<u> </u>	2		41			
	1 • 3758+			42			
	1.6044+		orther/fore*ther/debossess-	43			
	2°9802*		·	44			
	. 0 · c			45			
	0 • c			46			
22				47			
23				48			
24		***************************************		49			~
25				50			omende Stiffe Burgust und de La La La John Kristinssonen Australie
Calcu	lations:				Levivelt	shl = 2.	9802

DRUG POWDER ANALYSIS FORM	5-17-10
SAMPLE#AGENCY Q	Evidence Wt 3, 14
PHYSICAL DESCRIPTION:	Gross Wt (): \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
4pb w/ swb	Gross Wt (): Pkg. Wt: Net Wt: 0, 0980 OHANS 2334 5-13-(1)
	20, = 20, 5000 8 10, = 10, 6001 8 5, = 5, 50008 1, - 0, 9998
PRELIMINARY TESTS Spot Tests Cobalt Thiocyanate () Marquis Froehde's Mecke's	Microcrystalline Tests Gold Chloride TLTA () OTHER TESTS
PRELIMINARY TEST RESULTS RESULTS DATE	GC/MS CONFIRMATORY TEST RESULTS MS OPERATOR

Sample #:

samples tested:

#	Gross Welght	Packet Weight	Net Weight	#	Gross Welght	Packet Weight	Net Weight
1				26			
2				27			
3	·····			28			····
4				29	MANAGARAN AND AND AND AND AND AND AND AND AND A		**************************************
5				30			
6			·····	31		·	
7				32	**************************************		•
8	2000000			33			·
9				34			
10	***************************************			35			
11	-			36			4/4/14g
12				37			
13		·		38			
14			,	39			MAN
15	~20000000000000000000000000000000000000			40			
16			······	41			
17	··········			42			
18				43		·	
19				44			
20			- 10 4000000000	45			
21				46	\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.		
22				47			
23		·		48			
24				49			
25				50			

DRUG POWDER ANALYSIS FORM

5-17-10

SAMPLE #	AGENCY Guincy	ANALYST MM	
No. of samples tested:		Evidence Wt. 6.27	
PHYSICAL DESCRIPTION:		Gross Wt (): 4, 252-31	
19pb w/sub		Gross Wt ():	
		Pkg. Wt:	
		Net Wt: 3.3307	
		0HAUS 2334 5-14- 208 = 20.0000 8 108 = 10.0000 8 55 - 5.0000 8 18 - 1.0000 8	/(
Cobalt X 2 Marquis Froehde's Mecke's		Microcrystalline Tests Gold X2 Chloride X2 TLTA CHARTESTS	
PRELIMINARY TEST RESULTS RESULTS DATE	R	RESULTS CHAMALE MS ASP ERATOR 57711	

samples tested:

Gross	Neight	Net Weight	#	Gross Weight	Packet Weight	Net Weight
0.0		01529	26			
/ . · · · 0 · 1529 +		0.1976	27			
0∘1976÷			28			
0°3505÷ 2°=	***************************************		29			
0 • 1753 *	***************************************		30			
. 0°1753×			31			
19°=	poolikist		32			,
€ 9 307 %			33			1
<i>3</i>	P-P-III.		34			
			35			
<i>i</i> .		·····	36			
12	**************************************		37			
13			38			
14			39	Market Marie		
15			40			
16		en e	41	nagggggggggggafgaffil HT talbask manadas annanggreynynynyn		<u> </u>
17			42			
18			43			
19			44			
20			45			
21		y-1000 - 121100 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 -	46			
22			47			
23			48			
24			49			
25			50			
Calculations:					_	-
					-	
			·······		194850014	

Area Percent / Library Search Report

Information from Data File:

File Name : $F:\Q2-2010\SYSTEM4\05 14 10\717080.D$

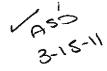
Operator : ASD

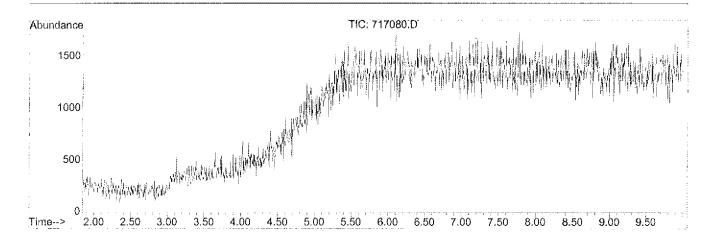
Date Acquired : 15 May 2010 5:45

Sample Name : BLANK

Submitted by :

Vial Number : 2 AcquisitionMeth: DRUGS Integrator : RTE





Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q2-2010\SYSTEM4\05_14_10\717081.D
Operator : ASD
Date Acquired : 15 May 2010 5:59

Sample Name : COCAINE STD Submitted by : Vial Number : 81 AcquisitionMeth: DRUGS Integrator : RTE

Abundance	3,90	TIC: 717081.D	
1000000			
800000			
600000	**************************************		
400000			: : :
200000			<u>.</u>
0	3.00 3.50 4.00 4.50	5.00 5.50 6.00 6.50 7.00 7.5	50 8.00 8.50 9.00 9.50

Ret. Time	Area	Area %	Ratio %
3.895	1005312	100.00	100.00

File Name : F:\Q2-2010\SYSTEM4\05 14 10\717081.D

Operator : ASD

Date Acquired : 15 May 2010 5:59

Sample Name : COCAINE STD

Submitted by :

Vial Number : 81 AcquisitionMeth: DRUGS Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

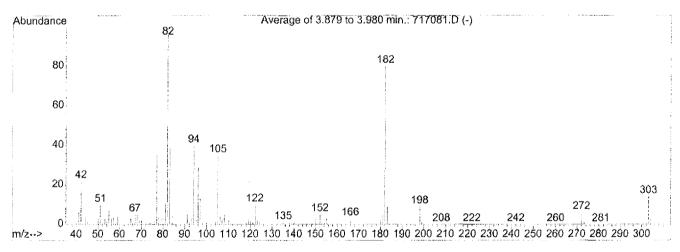
Minimum Quality: 90

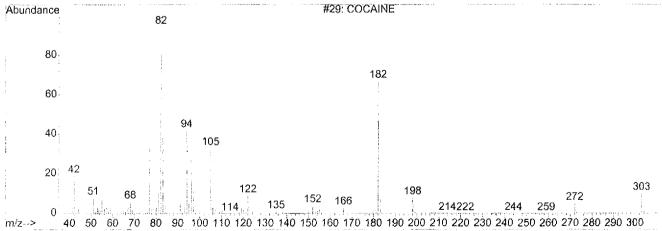
C:\DATABASE\PMW_TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	3.90	C:\DATABASE\SLI.L COCAINE	000050-36-2	99





717081.D

Tue Mar 15 07:38:09 2011

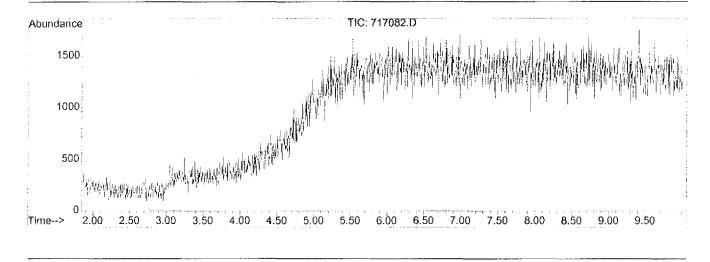
Page 2

File Name : $F:\Q2-2010\SYSTEM4\05_14_10\717082.D$

Operator : ASD

Date Acquired : 15 May 2010 6:13

Sample Name : BLANK Submitted by : DXF Vial Number : 2 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

717082.D

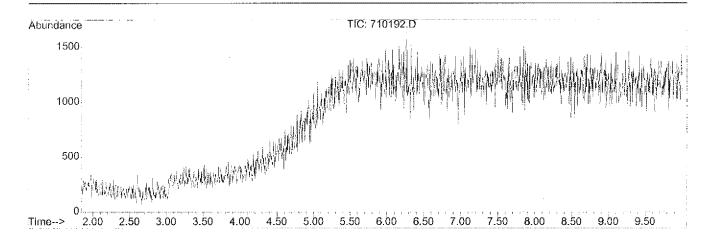
Tue Mar 15 07:38:12 2011

File Name : $F:\Q2-2010\SYSTEM4\05_14_10\710192.D$

Operator : ASD

Date Acquired : 15 May 2010 19:53

Sample Name : BLANK Submitted by : MGL Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

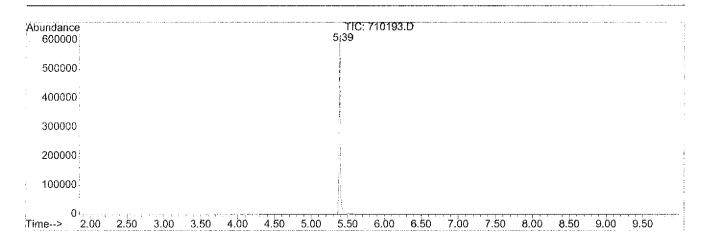
File Name : F:\Q2-2010\SYSTEM4\05_14_10\710193.D

Operator : ASD

Date Acquired : 15 May 2010 20:07

Sample Name : HEROIN STD

Submitted by : MGL Vial Number : 34 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %
5.387	741242	100.00	100.00

File Name : F:\Q2-2010\SYSTEM4\05 14 10\710193.D

Operator : ASD

Date Acquired : 15 May 2010 20:07

Sample Name : HEROIN STD

Submitted by : MGL Vial Number : 34 AcquisitionMeth: DRUGS Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

Minimum Quality: 90

C:\DATABASE\PMW TOX2.L

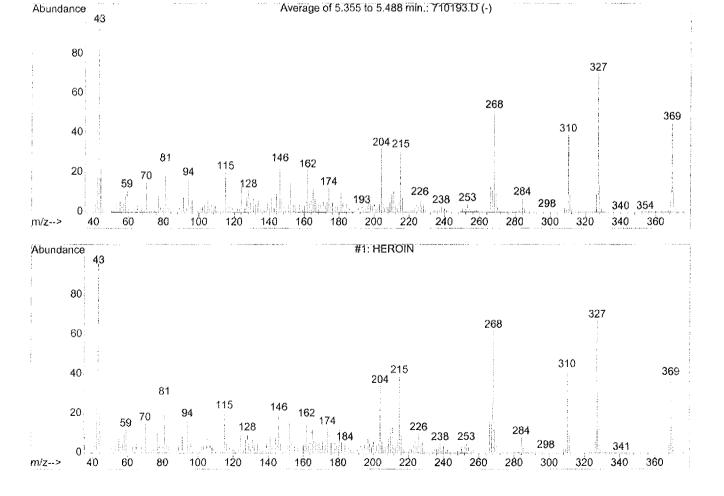
Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	5.39	C:\DATABASE\SLI.L		

l 5.39 C:\DATABASE\SLI.I HEROIN

000561-27-3 99



710193.D

Tue Mar 15 07:38:34 2011

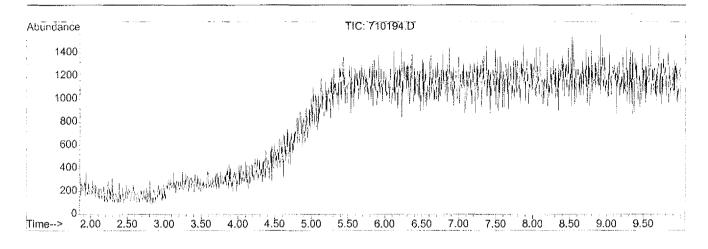
Page 2

File Name : F:\Q2-2010\SYSTEM4\05_14_10\710194.D

Operator : ASD

Date Acquired : 15 May 2010 20:20

Sample Name : BLANK Submitted by : MGL Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

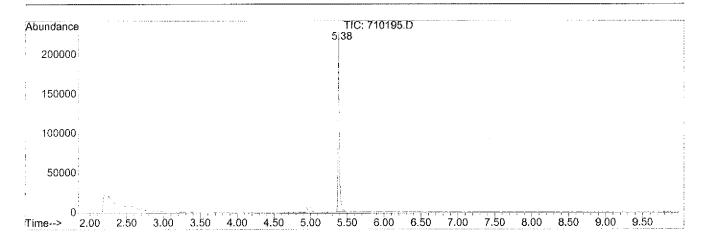
File Name : F:\Q2-2010\SYSTEM4\05_14_10\710195.D

Operator : ASD

Date Acquired : 15 May 2010 20:34

Sample Name :

Submitted by : MGL
Vial Number : 37
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
5.383	278542	100.00	100.00

File Name : $F:\Q2-2010\SYSTEM4\05$ 14 10\710195.D

Operator : ASD

Date Acquired : 15 May 2010 20:34

Sample Name :

Submitted by : MGL
Vial Number : 37
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

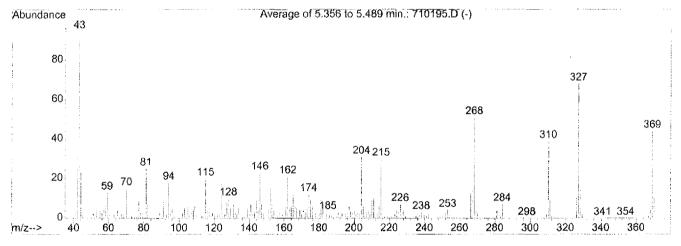
Minimum Quality: 90

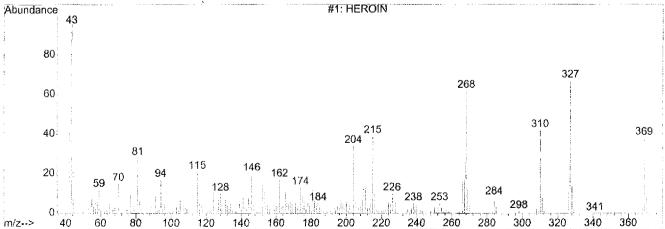
C:\DATABASE\PMW_TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	5.38	C:\DATABASE\SLI.L HEROIN	000561-27-3	99





710195.D

Tue Mar 15 07:38:40 2011

Page 2

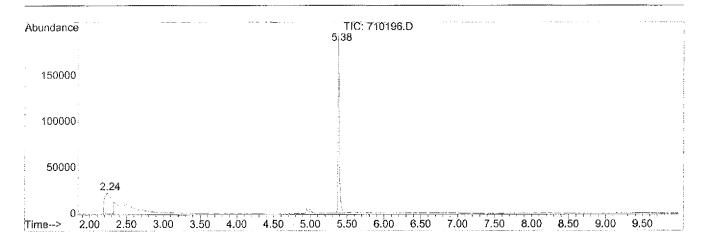
File Name : $F:\Q2-2010\SYSTEM4\05_14_10\710196.D$

Operator : ASD

Date Acquired : 15 May 2010 20:47

Sample Name :

Submitted by : MGL Vial Number : 39 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
2.240 5.382		37.66 62.34		

File Name : F:\Q2-2010\SYSTEM4\05 14 10\710196.D

Operator : ASD

Date Acquired : <u>15 May 2010</u> 20:47

Sample Name :

Submitted by : MGL Vial Number : 39 AcquisitionMeth: DRUGS Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

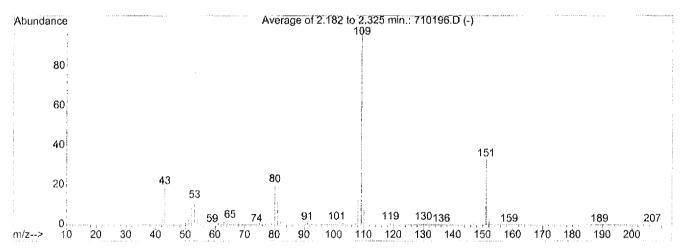
Minimum Quality: 90

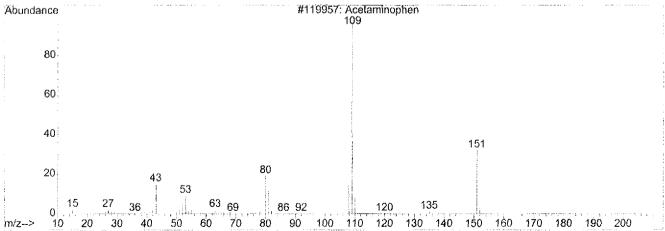
C:\DATABASE\PMW_TOX2.L
C:\DATABASE\NIST98.L

Minimum Quality: 90

DK#	RT	Library/ID	

PK#	RT	Library/ID	CAS#	Qual
 1	2.24	C:\DATABASE\NIST98.L Acetaminophen Acetaminophen Metacetamol	000103-90-2 000103-90-2 000621-42-1	95 94 90





710196.D

Tue Mar 15 07:38:44 2011

Page 2

File Name : $F:\Q2-2010\SYSTEM4\05 14 10\710196.D$

Operator : ASD

Date Acquired : 15 May 2010 20:47

Sample Name :

Submitted by : MGL Vial Number : 39 AcquisitionMeth: DRUGS Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

Minimum Quality: 90

C:\DATABASE\PMW_TOX2.L

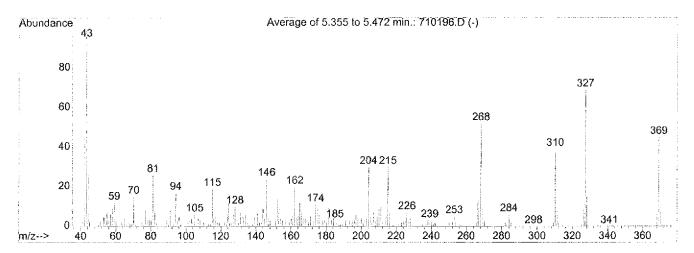
Minimum Quality: 90

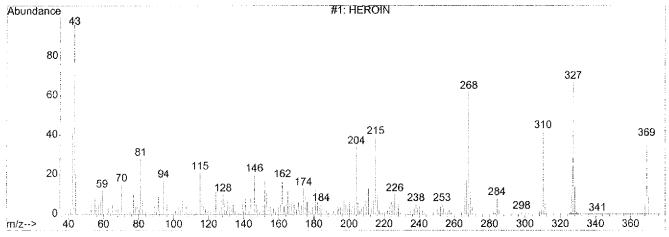
C:\DATABASE\NIST98.L

PK# RT Library/ID CAS# Qual

2 5.38 C:\DATABASE\SLI.L

2 5.38 C:\DATABASE\SLI.L HEROIN 000561-27-3 94





710196.D

Tue Mar 15 07:38:44 2011

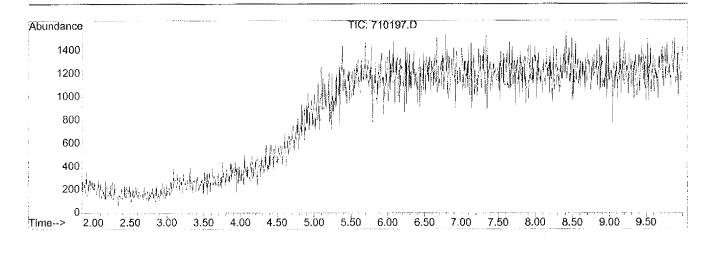
Page 3

File Name : $F:\Q2-2010\SYSTEM4\05\14_10\710197.D$

Operator : ASD

Date Acquired : 15 May 2010 21:01

Sample Name : BLANK Submitted by : MGL Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

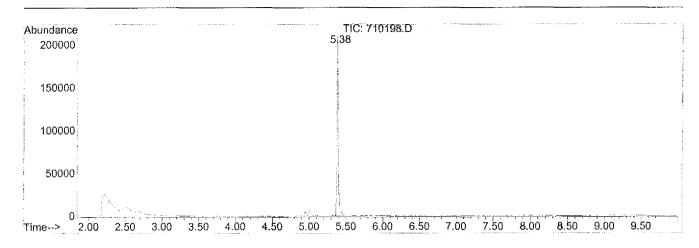
File Name : $F:\Q2-2010\SYSTEM4\05_14_10\710198.D$

Operator : ASD

Date Acquired : 15 May 2010 21:14

Sample Name :

Submitted by : MGL Vial Number : 41 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %
5.379	267678	100.00	100.00

File Name : $F:\Q2-2010\SYSTEM4\05 14 10\710198.D$

Operator : ASD

Date Acquired : 15 May 2010 21:14

Sample Name :

Submitted by : MGL Vial Number : 41 AcquisitionMeth: DRUGS Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

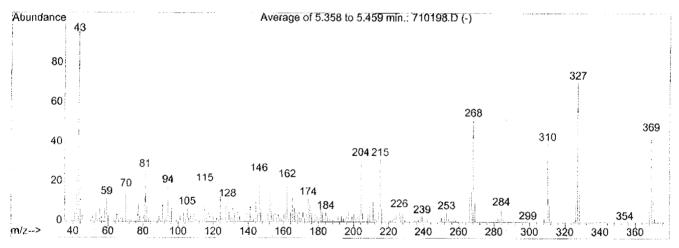
Minimum Quality: 90 X2.L Minimum Quality: 90

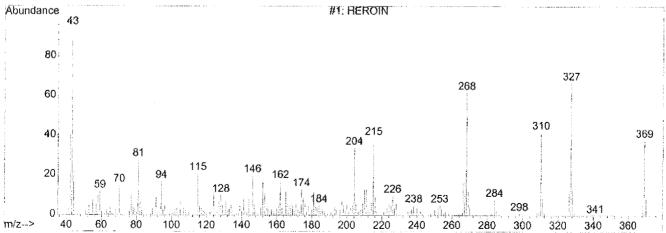
C:\DATABASE\PMW_TOX2.L
C:\DATABASE\NIST98.L

PK# RT Library/ID CAS# Qual

1 5.38 C:\DATABASE\SLI.L

HEROIN 000561-27-3





710198.D

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Area Percent / Library Search Report

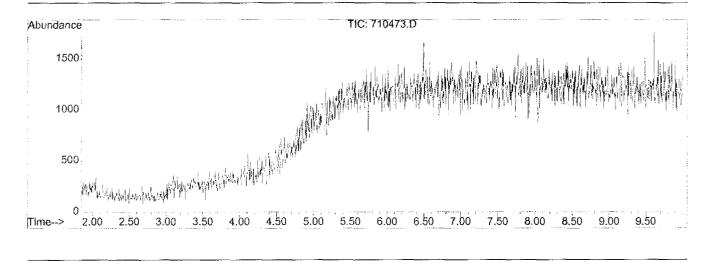
Information from Data File:

File Name : $F:\Q2-2010\SYSTEM4\05_14_10\710473.D$

Operator : ASD

Date Acquired : 15 May 2010 21:28

Sample Name : BLANK Submitted by : MGL Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

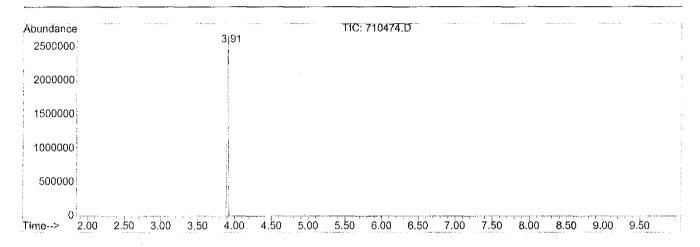
File Name : $F:\Q2-2010\SYSTEM4\05 14 10\710474.D$

Operator : ASD

Date Acquired : 15 May 2010 21:41

Sample Name Submitted by

: MGL Vial Number : 43 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %
3.909	3260574	100.00	100.00

710474.D

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File Name : $F:\Q2-2010\SYSTEM4\05$ 14 10\710474.D

Operator : ASD

Date Acquired : 15 May 2010 21:41

Sample Name :

Submitted by : MGL Vial Number : 43 AcquisitionMeth: DRUGS Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

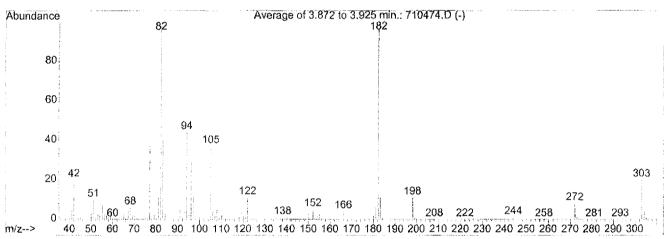
Minimum Quality: 90

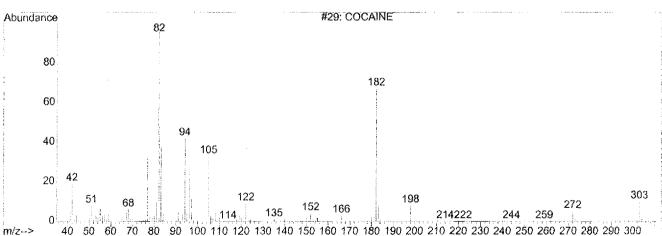
C:\DATABASE\PMW_TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	3.91	C:\DATABASE\SLI.L COCAINE	000050-36-2	99





710474.D

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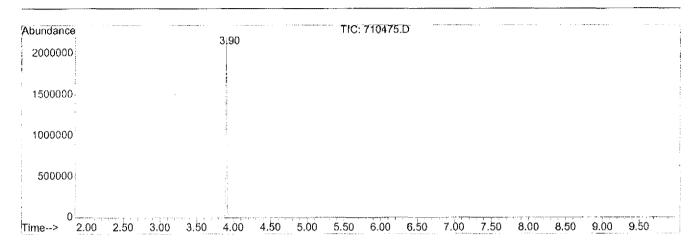
File Name : $F:\Q2-2010\SYSTEM4\05_14_10\710475.D$

Operator : ASD

Date Acquired : 15 May 2010 21:55

Sample Name :

Submitted by : MGL Vial Number : 45 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %
3.901	2255536	100.00	100.00

File Name : $F:\Q2-2010\SYSTEM4\05_14_10\710475.D$

Operator : ASD

Date Acquired : 15 May 2010 21:55

Sample Name :

Submitted by : MGL Vial Number : 45 AcquisitionMeth: DRUGS Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

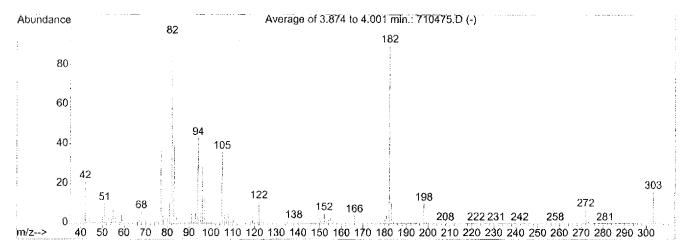
\DATABASE\SLI.L Minimum Quality: 90 \DATABASE\PMW TOX2.L Minimum Quality: 90

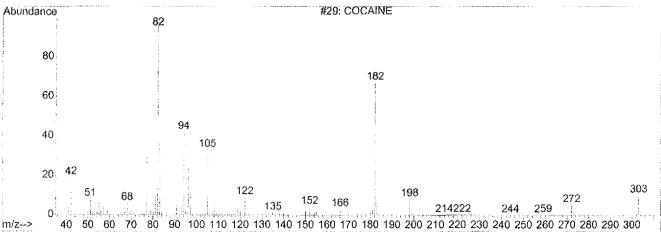
C:\DATABASE\PMW_TOX2.L
C:\DATABASE\NIST98.L

PK# RT Library/ID CAS# Qual

1 3.90 C:\DATABASE\SLI.L

COCAINE 000050-36-2





710475.D

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Area Percent / Library Search Report

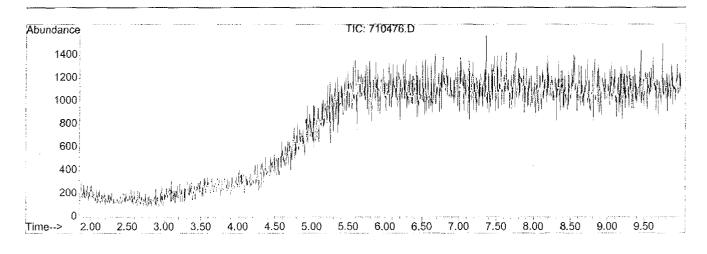
Information from Data File:

File Name : F:\Q2-2010\SYSTEM4\05_14 10\710476.D

Operator : ASD

Date Acquired : 15 May 2010 22:08

Sample Name : BLANK Submitted by : MGL Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

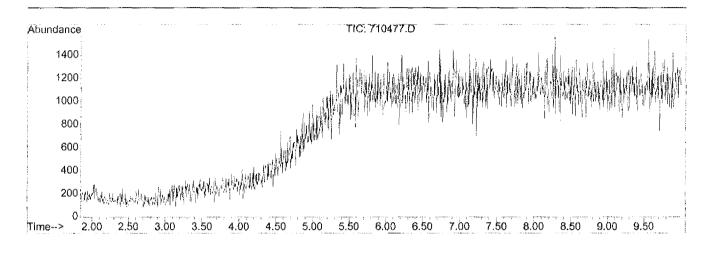
NO INTEGRATED PEAKS

File Name : $F:\Q2-2010\SYSTEM4\05$ 14 10\710477.D

Operator : ASD

Date Acquired : 15 May 2010 22:22

Sample Name : BLANK Submitted by : MGL Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

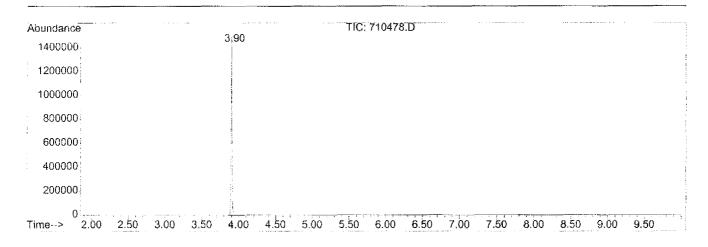
File Name : $F:\Q2-2010\SYSTEM4\05_14_10\710478.D$

Operator : ASD

Date Acquired : 15 May 2010 22:35

Sample Name : COCAINE STD

Submitted by : MGL Vial Number : 5 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %
3.898	1315826	100.00	100.00

File Name : $F:\Q2-2010\SYSTEM4\05$ 14 10\710478.D

Operator : ASD

Date Acquired : 15 May 2010 22:35

Sample Name : COCAINE STD

Submitted by : MGL Vial Number : 5 AcquisitionMeth: DRUGS Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

Minimum Quality: 90 Minimum Quality: 90

99

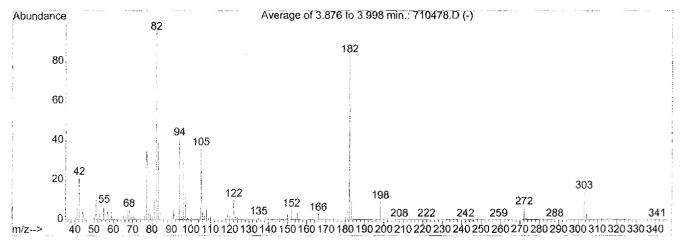
C:\DATABASE\PMW_TOX2.L

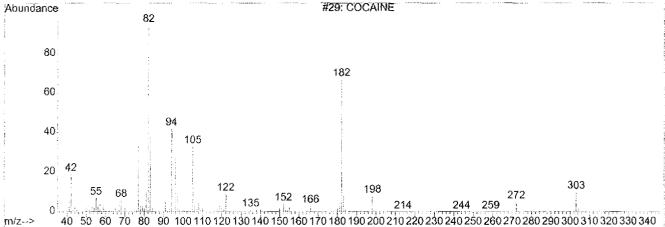
C:\DATABASE\NIST98.L

PK# RT Library/ID CAS# Qual

1 3.90 C:\DATABASE\SLI.L

COCAINE 000050-36-2





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Area Percent / Library Search Report

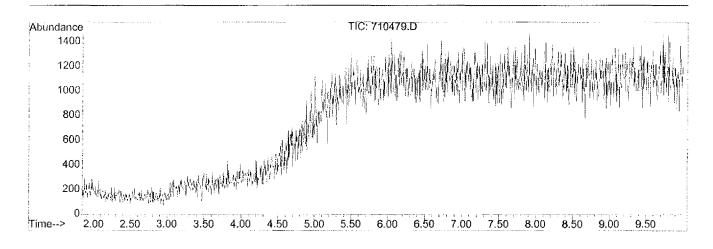
Information from Data File:

File Name : $F:\Q2-2010\SYSTEM4\05\14_10\710479.D$

Operator : ASD

Date Acquired : 15 May 2010 22:49

Sample Name : BLANK Submitted by : MGL Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

710479.D

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Area Percent / Library Search Report

Information from Data File:

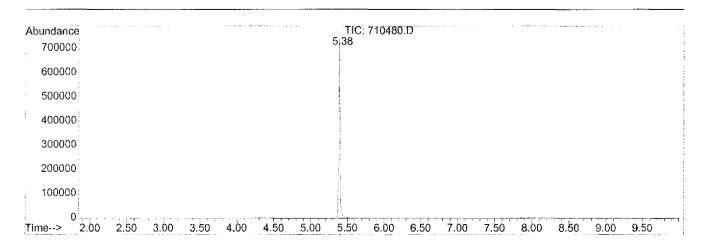
File Name : F:\Q2-2010\SYSTEM4\05_14_10\710480.D

Operator : ASD

Date Acquired : 15 May 2010 23:03

Sample Name : HEROIN STD

Submitted by : MGL Vial Number : 34 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %
5.384	833566	100.00	100.00

File Name : $F:\Q2-2010\SYSTEM4\05 14 10\710480.D$

Operator : ASD

Date Acquired : 15 May 2010 23:03

Sample Name : HEROIN STD

Submitted by : MGL Vial Number : 34 AcquisitionMeth: DRUGS Integrator : RTE

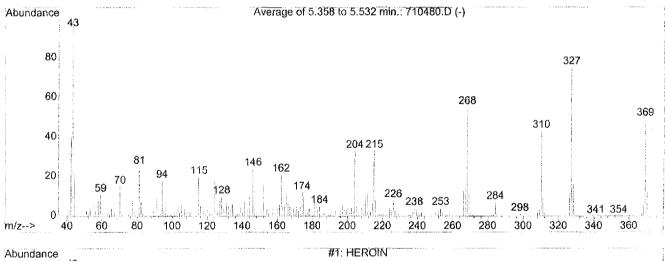
Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90

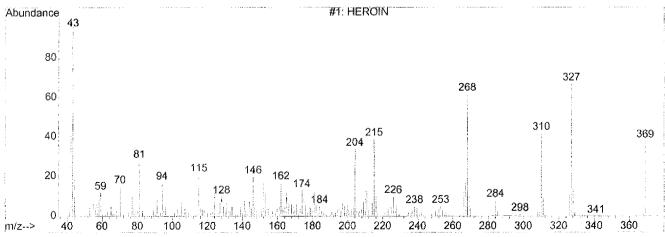
C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK# RT Library/ID CAS# Qual

1 5.38 C:\DATABASE\SLI.L
HEROIN 000561-27-3 99





710480.D

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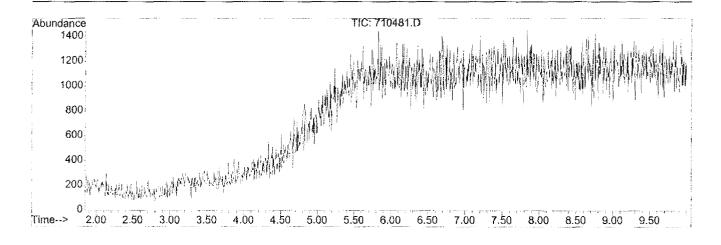
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File Name : F:\Q2-2010\SYSTEM4\05_14 10\710481.D

Operator : ASD

Date Acquired : 15 May 2010 23:17

Sample Name : BLANK Submitted by : MGL Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area % Ratio %

^{***}NO INTEGRATED PEAKS***

Last page..... ... no further data